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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,128	12/23/2005	Susumu Watanuki	Q92303	5572
65565 SUGHRUE-265	7590 02/26/200 5550	7	EXAMINER	
2100 PENNSY	LVANIA AVE. NW		GALLIS, DAVID E	
WASHINGTON, DC 20037-3213			ART UNIT	PAPER NUMBER
			1609	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
31 DAYS		02/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/562,128	WATANUKI ET AL.			
		Examiner	Art Unit			
		David E. Gallis	1609			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING D. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)[X]	Responsive to communication(s) filed on 23 D	ecember 2005				
	This action is FINAL . 2b)⊠ This action is non-final.					
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٠,۵	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
_						
•	 4) Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 					
	Claim(s) is/are allowed.	With total consideration.				
	Claim(s) is/are rejected.	•				
7)	Claim(s) is/are objected to.	•				
	Claim(s) <u>1-21</u> are subject to restriction and/or of	election requirement				
0)[cicotion requirement.	•			
Applicati	on Papers					
9) 🗌 🤈	The specification is objected to by the Examine	er.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	t(s)	•				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						

Application/Control Number: 10/562,128

Art Unit: 1609

DETAILED ACTION

1. Claims 1 through 21 are pending.

Election/Restrictions

2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1 and 2 and claims 7 through 17 (in part), drawn to a quinolone derivative and pharmaceutical composition comprising a quinolone derivative represented by formulas (I) of claim 1 and (I-a) of claim 7, wherein X=CH; Y=CH; R2=alkyl, aryl, or heterocyclyl; R3=halogen; R4=cyclohexyl; R5=halogen; R11=alkyl-carboxylic, alkyl-phosphonic, alkyl-phosphoric acids or their salts; and R12=H.

Group II, claims 1 and 2 and claims 7 through 17 (in part), drawn to a quinolone derivative and pharmaceutical composition comprising a quinolone derivative represented by formulas (I) of claim 1 and (I-a) of claim 7, wherein X=CH; Y=N; R2=alkyl (straight chain, branched or cyclo); R3=ethoxy or halogen; R4=cyclohexyl; R5=H or halogen; R11=alkyl-carboxylic, alkyl-phosphonic, alkyl-phosphoric acids or their salts; and R12=H.

Group III, claims 1 and 2 and claims 7 through 17 (in part), drawn to a quinolone derivative and pharmaceutical composition comprising a quinolone derivative represented by formulas (I) of claim 1 and (I-a) of claim 7, wherein X=N; Y=CH.

Group IV, claims 1 and 2 and claims 7 through 17 (in part), drawn to a quinolone derivative and pharmaceutical composition comprising a quinolone derivative represented by formulas (I) of claim 1 and (I-a) of claim 7 and not specified by the electable geneses of inventions I through III. If this invention is selected, applicant must elect a specicies consisting of a quinolone derivative according to formulas (I) of claim 1 and (I-a) of claim 7 defined to contain individually specific functional groups with respect to each of R1 through R12, X, and Y.

Groups V through VIII, claims 18 through 21 and claims 3 through 6 (in part), drawn to a process of using a quinolone derivative and pharmaceutical composition comprising a quinolone derivative represented by formulas (I) of claim 1 and (I-a) of claim 7 as

platelet aggregation and P2Y12 inhibitors or the manufacture of said inhibitors; wherein the derivative utilized is defined for groups V through VIII as the product of groups I through IV, respectively.

3. The inventions listed as Groups I through VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature linking Groups I through VIII lacks novelty as a quinolone derivative. Sakae et al. teach a quinolone derivative wherein with respect to the instant formulas (I) and (I-a) Y=CH, X=CH, R2=aryl, R3=halogen, R4=cycloalkyl, R5=R11=R12=H (See Sakae et al, EP 945435 A1, PCT/JP97/04326, publication date 9/29/99.) This functional group assignment, among others therein, demonstrates lack of novelty with respect to the compound claimed.

Therefore a technical feature linking the inventions of Groups I through VIII does not constitute a special feature as defined by PCT Rule 13.2 as it does not define a contribution over prior art.

Accordingly, Groups I through VIII are not linked by the same or a corresponding special technical feature as to form a general inventive concept

4. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are defined above within the description of Invention IV.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply

Art Unit: 1609

must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

- 5. The species lack unity because they differ in elements, bonding arrangements and chemical structure to such an extent that a reference anticipating any one group would not render the other group obvious, thus unpatentability of any group would not necessarily imply unpatentability of another group. The varying classes and subclasses of each diverse structure as delineated will constitute an enormous search burden.
- 6. The following claims are generic: Claims 1 through 13 and Claims 15 through 21.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Application/Control Number: 10/562,128

Art Unit: 1609

7. Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Page 5

8. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined. In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during

in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

- 9. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Gallis whose telephone number is 571-272-9068. The examiner can normally be reached on Mon-Fri 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on 571-272-1600. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

Application/Control Number: 10/562,128

Art Unit: 1609

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David E. Gallis
Patent Examiner

VICKIE KIM
PRIMARY EXAMINER

Page 7